

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims

Claim 1-16 (canceled)

Claim 17 (previously presented): An ion mobility sensor for simultaneously detecting both ion and molecules, including:

a hollow housing;

a glow discharge ionizer mounted to one end of said hollow housing, wherein said glow discharge ionizer includes a hollow tube and a pointed member coaxially mounted in said hollow tube;

a glow discharge detector mounted to an opposite end of said hollow housing, wherein said glow discharge detector includes a hollow tube and a pointed member coaxially mounted in said hollow tube,

said hollow tube of each of said glow discharge ionizer and said glow discharge detector is mounted in opposite ends of said hollow housing, and said glow discharge ionizer and said glow discharge detector are coaxially mounted in said housing and are coaxially aligned one with another; and

a pair of conductive members mounted around said hollow tubes of said ionizer and said detector, in contact with opposite ends of said hollow housing, and operatively connected to a power supply.

Claim 18 (previously presented): The ion mobility sensor of Claim 17, additionally including a plurality of conductive members mounted in spaced relation along a length of said hollow housing, and electrically connected to ground via a plurality of resistors.

Claim 19 (previously presented): The ion mobility sensor of Claim 18, wherein each one of said plurality of resistors is mounted intermediate an adjacent pair of said plurality of conductive members.

Claim 20 (previously presented): The ion mobility sensor of Claim 19, wherein said hollow housing is composed of a plurality of sections, and wherein said plurality of conductive members are each mounted intermediate adjacent pairs of said plurality of housing sections.

Claim 21 (previously presented): The ion mobility sensor of Claim 20, wherein each of said plurality of conductive members has an opening therethrough.

Claim 22 (previously presented): The ion mobility sensor of Claim 21, wherein each opening in said plurality of conductive members is in alignment with said pointed member of each of said glow discharge ionizer and said glow discharge detector.

Claim 23 (previously presented): The ion mobility sensor of Claim 22, wherein said pointed members of said glow discharge ionizer and said glow discharge detector are mounted such that points of said pointed member are aligned with and directed toward each other.

Claim 24 (previously presented): The ion mobility sensor of Claim 23, in combination with a chromatograph.